CCCFCD STANDARD - RUNOFF COEFFICIENTS

Rational Formula

Land Use	Runoff Coefficient	Average Impervious Area (%)	Time of Concentration- Roof to Gutter (min)
Residential:			
R - 6 R - 10 R - 20 R - 40	.5070 .4560 .4050 .3545	76 53 35 25	3 - 5 5 - 7 6 - 8 8 - 10
Apartment	.6080		3 - 10
Commercial	.7095		3 - 8
Industrial	.6090		3 - 10
Open	.2040		
Street:			
Asphalt Concrete	.7595 .8095		
Drives and Walks	.8095		
Roofs	.7595		

Legend

 $R - 6 = 6,000 \text{ ft}^2 \text{ Lot}$ $R - 10 = 10,000 \text{ ft}^2 \text{ Lot}$ $R - 20 = 20,000 \text{ ft}^2 \text{ Lot}$ $R - 40 = 40,000 \text{ ft}^2 \text{ Lot}$

Note: For Contra Costa County Land Uses use the highest runoff coefficient in the range. This more closely approximates the peak flows calculated by the Unit Hydrograph method developed for Contra Costa County and calibrated with local rainfall and runoff data.